

## POST & BID POSITION ANNOUNCEMENT

### Bargaining Units 1, 4 and 11

1. Reference #: 11-9-280      2. Position Number: 911-350-3626-002      3. Date of Posting: 12/06/18
4. Classification: **Electrical Engineering Technician III**      5. Salary Range: \$4,869 - \$6,092
6. Pay Differentials That Apply To Position: N/A
7. Working Hours Of Position: Monday through Friday, 7:00 AM to 4:00 PM
8. District/Division: **11/Traffic Operations** Section: **TMC Ramp Metering/VDS** Geographic Location: **San Diego**  
(If selected and the position requires a relocation, the Department will NOT provide relocation assistance.)

**9. Specific Qualifications and Requisite Skills Required:** (Attach a separate sheet if additional space is needed.)

A. Minimum Qualifications per the Classification Specifications (BU1 & 4 only) (Education and or Experience):

B. Technical & Professional Skills & Abilities:

Must have knowledge of traffic engineering-related mathematical formulas and have ability to make engineering calculations, evaluate various types of electric traffic data collection equipment, and independently troubleshoot malfunctions of electrical or electronic equipment/systems. Must possess extensive or advanced journey level knowledge of electronics as applied to Model 334 controller cabinets, various traffic data collection equipment, VDS consisting of loop/radar detectors, piezoelectric axle sensors, and various types of electronic test equipment. Must have knowledge of various software programs used by Caltrans and contractors for electronic data transfer and processing, such as the Ramp Metering Information System (RMIS), Microsoft Office software used to prepare reports and spreadsheets, the California Vehicle Code, the Manual on Uniform Traffic Control Devices, the Caltrans Traffic Manual, the Caltrans Standard Plans and Specifications. Must have knowledge of lead person responsibilities; training methods; the department's safety and health policies and procedures.

Must have the ability to read and understand highway plans, drawings and field data that relates to detection of ramp metering locations. Must establish and maintain friendly and cooperative relations with those contacted during the course of inspections and other work, analyze situations accurately and take effective actions, communicate effectively both orally and in writing.

Must have the ability to follow directions; use state of the art technology, personal computers, stand-alone interactive systems; report the status of work and the completed results; act in a lead capacity; train and guide the work of others.

C. License and/or Certification Requirements:

D. Physical Abilities to Perform Essential Functions:

Some bending, stooping, kneeling and lifting is required to troubleshoot VDS and Census equipment. Must be able to lift and move certain pieces of traffic count equipment. Required to work adjacent to high-speed freeway and highway traffic for significant periods of time. Required to access off-pavement conditions across uneven terrain. Required to adhere to basic occupational safety and health regulations governing the design and installation of electrical and electronic equipment, including the National Electric Code, Title 8 Industrial Relations, and Electrical Safety Orders of the Division of Occupational Safety and Health. Must have the ability to develop and maintain cooperative working relationships, respond tactfully and appropriately to difficult situations, diplomatically resolve emotionally charged issues or problems, apply sound judgment in independent situations, analyze potential risks, and make informed decisions.

E. Other Departmental Requirements:

## F. Duty Statement/Description of Duties:

Under the direction of the Branch Chief, or his/her delegated staff, the Electrical Engineering Technician III (EET III) supports the Ramp Metering/Vehicle Detection Sites (VDS) Operations, Census & Traffic Systems Support Branch at the Transportation Management Center (TMC). The EET III independently performs electrical and electronic field inspections and is involved in development, operations, maintenance, and administration of the Traffic Monitoring and Ramp Metering Stations. This is the advanced journey level of the EET series.

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10. Final Date and Time for Receiving Bid: 12/20/18

11. Where to Obtain Bid Form: <http://www.dot.ca.gov/hq/jobs/postandbid/postandbidmain.htm>

## 12. Submit Bid to:

Name: **Lea Tran**

Address: **4050 Taylor Street, MS 23. San Diego, CA 92110.**

Telephone Number: **619-688-6950**

FAX Number: **619-220-5387**

E-mail Address: **D11.Hiring@dot.ca.gov**

Window period employee must be available for contact (**Unit 1&4 Only**): From: \_\_\_\_\_ To: \_\_\_\_\_

(If selected, you must report in no less than 14 calendar days unless agreed otherwise by current and hiring supervisor and start date must be within 30 calendar days.)

13. Expected Reporting Date To Position (**Unit 11 Only**): Within thirty days of receiving notification of winning bid.

(If selected, you must report on the reporting date above unless agreed otherwise by current and hiring supervisor.)

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